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AMERICAN PERENNIAL GARDENS  
formerly Valley Gardens Garden City Mich.

SPRING AND FALL OF 1952

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U. S. Department of Agriculture

LIST OF NATIVE SEEDS AND PLANTS and OTHER CHOICE PERENNIALS

Plants are 50¢ each, 3 of one variety for \$1.35, 10 of one variety for \$4.00, except as noted. 5 or more of one variety at the 10 rate. Michigan residents add 3% Sales Tax.

The following wild flowers were propagated and grown at AMERICAN PERENNIAL GARDENS. Conservationists can buy our stock knowing that they are not contributing to the despoilation of any natural area. Gardeners can buy knowing the stock has the compact root system of the nursery-grown plant, not the rambling root of the collected plant that had to compete with other vegetation in the natural habitat.

ACHILLEA PTARMICA - The Pearl. 1 - 2 Ft. June-July. Flowers large double white. Good border plant and for cut flowers.

ACTAEA RUBRA - Red Baneberry. 1-2 Ft. Small white flowers in a short cylindric group in spring followed by attractive red fruit in late summer. Rich moist shade or semi-shade. Native to much of Eastern N.A. Each 40¢, 3 - \$1.05, 10 - \$3.00.

ACTINEA HERBACEA - Lakeside Daisy. Large yellow daisy-like flowers in spring on 6-10 in. wooly stems. Foliage gray-green, forming low neat mound. Full sun. Good rock plant. Very rare. Possibly but three remaining stations in N. A. Locally only in Ill., Ohio and Ont.

AGROSTEMMA CORONARIA ASTROSANGUINEA - Rose Campion, or Dusty Miller. 1-1½ Ft. Silvery foliage. Deep blood red flowers in June-July. Full sun. Native to Eu. and Asia.

ANEMONELLA THALICTROIDES - Rue Anemone. 6-9 in. White to pink tinged flowers Apr-June. Light shade. One of the best loved eastern wild flowers. Eastern half of U.S. Each 35¢, 3 - 90¢, 10 - \$2.50.

ANCHUSA ITALICA - Var. Dropmore, Bugloss or Alkenet. 3-5 Ft. spikes of beautiful blue flowers in June and intermittently all summer if kept cut back. Well drained soil in sunny location. Use in border. European native.

AQUILEGIA BREVISTYLA - A small blue and white columbine. Blooms Jun-July with occasional blooms later. Native Alta to Alaska, SE and So. to Minn. and S. Da. Seed.

AQUILEGIA CANADENSIS - American Columbine. 1-3 Ft. Red and yellow. May-June. Attracts hummingbirds. Light shade or sun. Eastern half of U.S. and Canada. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.

AQUILEGIA CHRYSANTHA - Golden Columbine. 2-3 Ft. Large yellow, very long spurred flowers. May-June. Native to N. Mex. and Ariz.

AQUILEGIA LATIFOLIA - A dainty red and yellow columbine from the plains of Minn. and the Dakotas. Full sun.

ARABIS ALPINA - Rock Cress. Pure white flowers produced in masses in early spring. One of the best rock plants. European native.

ARABIS BLETHAROPHYLLA - Pink Rock Cress. An alpine from our west coast mountains. Of easy culture and hardy. A rock garden gem. Spike like racemes of deep rose little flowers from flat rosettes. Sun or light shade.

ARGEMONE INTERMEDIA - Prickley Poppy or Devils Fig. 2 Ft. Crinkly white silken 4 in. blooms. May-Sept. Foliage prickly. Blooms first year from seed. May be biennial. Dry sunny location. Waste places Ill. to Ida. So to Texas and N.M. Seed only.

ARISAEMA DRACONTIUM - Green Dragon. 2 - 3 Ft. Rich moist soil in shade. Closely related to Jack-in-the-Pulpit. Eastern half of U.S. and Canada.

ARISAEMA TRIPHYLLUM - Jack-in-the-Pulpit. 1-2 Ft. Rich moist soil in shade. The scarlet fruit very showy in fall. Popular name comes from the odd shaped flower, resembling a pulpit. Eastern half of U.S. and Canada. Each 35¢, 3 - 90¢, 10 - \$2.50.

ARMERIA - Thrift or Sea Pink. Large flowered Hybrids. About 1 Ft. Soft rose and pink shades. Sun. Edging or rock garden plant.







ARTEMISIA FRIGIDA - Mountain Fringe or Prairie Sagewort. Velvety silvery mounds to 4 in. Gray arching blossom spikes to 15 in. Full sun. Dry plains or rocks. Alaska to Sask. So. to Kansas, Tex., and Ariz.

ASARUM CANADENSE - Wild Ginger. Creeper. Apr-May. Rich moist shade. Useful ground cover. Northeast U.S. and Appalachians. Each 35¢, 3 - 90¢, 10 - \$2.50.

ASCLEPIAS TUBEROSA - Butterfly weed or Pleurisy Root. 2 Ft. Showy orange flowers. June-Aug. Dry location in full sun. Lasts a long time as a cut flower. Eastern half of U.S. and Canada. Seed.

BAPTISIA AUSTRALIS - Blue Wild Indigo. 3 - 6 Ft. Indigo-blue flowers in June, nearly an inch long, in loose-flowered long terminal racemes. Foliage lupine-like, very attractive. Full sun. Penna. to Ind. and So. to Ga. Seed.

CALLIRHOE INVOLUCRATA - Wine Poppy or Purple Poppy Mallow. 12 in. Showy deep rose-purple flowers from spring to heavy fall frosts. Full sun. Minn. to Texas. Seed.

CAMPANULA ROTUNDIFOLIA - Blue Bells of Scotland. 9 - 15 in. Dainty bell-shaped flowers June till frost. Sun or shade. Native to much of the N. temperate region of the world. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.

CASSIA MARILANDICA - Wild Senna. 3 - 4 Ft. Attractive light green foliage. Flowers in axillary racemes near top of stalks, bright yellow. July-Aug. Wet or dry soil in full sun. Penna. to Iowa. So. to Fla. and Texas. Seed only.

CHELONE GLABRA - White Turtlehead. 2 - 4 Ft. White flowers rose tinted on dense spikes. Aug.-Sept. Moist location or ordinary garden soil. Light shade or sun. Eastern half of U.S. Each 40¢, 3 - \$1.05, 10 - \$3.00.

CHELONE LYONI - Pink Turtlehead. 2 - 3 Ft. Rose-colored flowers Aug.-Sept. Moist location or ordinary garden conditions in light shade or sun. Native to mountains of Va. and southward. Each 40¢, 3 - \$1.05, 10 - \$3.00.

CHRYSANTHEMUM MAXIMUM - Shasta Daisy. Daisies should be planted in deep rich soil in a sunny position. Valuable for cutting.

ALASKA - A vigorous plant with large white blossoms in June and July.

MAJESTIC - Immense white flowers 5 - 6 in with small yellow center. Double row of overlapping petals, makes flower full, compact, and firm. 28 - 30 in. stems prolifically produced. Medium early. Each 75¢, 3 - \$2.00, 10 - \$6.00.

MOUNT SHASTA - Fully double flowers with high crested centers on 24 in. stems. A very vigorous grower. Fine for cutting. Each 65¢, 3 - \$1.80, 10 - \$5.00.

DELPHINIUM - Larkspur. Giant Pacific Hybrids, mixed. Grown from seed of hand pollinated plants. Field grown, have bloomed once. Each 75¢, 3 - \$2.00, 10 - \$6.00.

DIANTHUS DELTOIDES - 6 in. A low growing rock plant, neat and compact at all times. Profuse bloomer. Crimson red. Early summer.

DICENTRA EXIMIA - Fringed Bleeding-Heart. 9 - 18 in. Heart shaped, nodding rose colored flowers from Apr. to Sept. Flowers similar to old favorite Dicentra Spectabilis. Light shade in humus-filled soil. N.Y. to Tenn. and Ga.

DICENTRA FORMOSA - Western Bleeding Heart. Similar to our Eastern Bleeding Heart. Same culture. Cal. to B. Col. Seed.

DIGITALIS GLOXINIAEFLORA - Large flowered Foxglove. White, purple or rose. Separate colors or mixed. Sun or light shade. Each 40¢, 3 - \$1.05, 10 - \$3.00.

ERIGERON CONCINNUS - Fleabane. 8 - 12 in. Blue. May - Aug. Native of Montana.

ERIOPHYLLUM INTEGRIFOLIUM. Small Oregon Sunshine. 10 in. Golden yellow flowers through May-Aug. Dry, sunny location. Cal. to Ore.

ERIOPHYLLUM LANATUM - Oregon Sunshine. 12 - 15 in. Gray-green foliage. Neat and compact throughout the year. Flowers golden yellow daisies, spring and summer. Both eriophyllums should be good edging plants in hot dry locations. Cal. to Ore.

ADIANTUM PEDATUM - Maidenhair Fern. 1 - 1½ Ft. Moist, rich humus soil in shade. Attractive foliage, most useful combined with bouquets. Also useful to fill area in combination with early spring flowers. Most of Eastern N.A. Each 40¢, 3 - \$1.05, 10 - \$3.00.

POLYSTICHUM ACROSTICHOIDES - Christmas Fern. 1 - 2 Ft. Fronds evergreen. Grows in rich or poor soil. Likes good drainage. Light shade. Combines well with many other plants. Most of Eastern N.A. Each 40¢, 3 - \$1.05, 10 - \$3.00.







FUNKIA OR HOSTA. Especially recommended for shade, but grows well in sun. Grows best in rich moist soil. Hardy perennials from China and Japan.

ERROMENA - 2½ Ft. A robust plant with dark green leaves. Flowers pale lilac.

LANCILFOLIA MARGINATA ALBA. Narrow leaved plantain lily. Light green leaves with white edge. Lavender flowers in August.

SUBCORDATA GRANDIFLORA ALBA. Large, pure white lily-like flowers in Aug-Sept. Very large yellowish green leaves. Each 65¢, 3 - \$1.80, 10 - \$5.50.

GENTIANA ANDREWSII - Closed Gentian. 1 - 2 Ft. Flowers blue to Violet blue. Sept.-Oct. Moist location or ordinary garden soil. Sun or light shade. Much of Eastern N.A. Seed. Each 45¢, 3 - \$1.20, 10 - \$3.50.

GENTIANA ANDREWSII ALBA - White Closed Gentian. Similar to above, but rare white form. Each 75¢, 3 - \$2.00, 10 - \$6.00.

GENTIANA CRINITA - Fringed Gentian. 1 - 2 Ft. Moist rich soil in light shade or full sun. Certainly our most beautiful and most sought after blue flower. Aug.-Oct. Biennial. Seed only at 50¢ per packet. Much of Eastern half of N.A.

GERANIUM MACULATUM - Wild Geranium. 1 - 2 Ft. Lavender-purple flowers May-June. Light shade. Eastern U.S. Seed. Each 35¢, 3 - 90¢, 10 - \$2.50.

HELIOPSIS LAEVIS PICHERIANA. 2 - 3 Ft. Yellow daisy-like blooms in Aug. Valuable in the hardy border in dry location. Useful for cutting. Spread of 3 - 4 Ft. Eastern U.S. and Canada.

HEPATICA ACUTILOBA - Sharplobe Hepatica. 4 - 6 in. White, pink or lavender-blue flowers, early spring. Shade or light shade. Leaves semi-evergreen. Makes good ground cover. Maine to Minn. So. to Ga., Ala, and Mo. Each 35¢, 3 - 90¢, 10 - \$3.00

HEPATICA TRILOBA - Roundlobe Hepatica. Similar to Acutiloba, but rounded leaves. N.S. to Man., So. to Fla., Ala., and Mo. Each 35¢, 3 - 90¢, 10 - \$2.50.

HEUCHERA AMERICANA - American Alum Root or Rock Geranium. 1 - 2 Ft. Flowers greenish. June. Mottled foliage, very attractive, especially in spring. Semi-evergreen. Central Ont. and Mich. to Ga., Ala., and Okla. Seed. Each 35¢, 3 - 90¢, 10 - \$2.50.

HEUCHERA VILLOSA - Hairy Alum Root. 9 - 18 in. Dainty white flowers resembling miterwort. July-Oct. Good ground cover in moist light shade. Eastern U.S. Each 35¢, 3 - 90¢, 10 - \$2.50.

HYDRASTIS CANADENSIS - Golden Seal. 12 - 15 in. Greenish white flower. Apr.-May, followed by bright red berry in July-Aug. Ordinary garden soil in shade. Grown commercially for the root. Vt. to Minn. and Neb. to Ga., Ala., and Ark. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.

IRIS CRISTATA - Crested Iris. 4 - 6 in. Sky-blue with yellow fringed crest. May. Light shade. D.C. to Ind. and Mo. So. to N.C., Ala., Minn., and Ark., Each 40¢, 3 - \$1.05, 10 - \$3.00.

IRIS VERSICOLOR - Large Blue Flag. 2 Ft. Blue. June. Ordinary garden soil or by pool or streamside in full sun. Eastern N.A. no. of W. Va. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.

LIATRIS SCARIOSA - Blue Blazing Star or Button Gayfeather. 4 - 6 Ft. Dry soil. Full sun. East of Rocky Mts. throughout U.S. and Canada. Seed.

LIATRIS SPICATA - Spike Gayfeather. 3 - 5 Ft. Full sun. Ordinary garden soil. Long spikes of rose-purple flowers July-Sept. Atlantic and Gulf States. Mass. to La.

LILIUM MICHIGANENSE - Michigan Lily. 4 - 8 Ft. Moist location or garden conditions. Orange-red. Flowers June-July with recurved petals. Light shade or sun. Ont. to Man. So. to Tenn. and Ark. Seed only.

LILIUM PHILADELPHICUM - Wood Lily. 2 - 3 Ft. Moist or dry location, light shade or sun. Mulch to keep bulbs cool. Upright, orange-red flowers June to mid-Aug. Grows from the sand dune to the bog. Eastern Canada, Northeastern states and the Appalachians. Seed only.

LINUM LEWSII - Prairie Blue Flax. Sky-blue flowers 1 - 1½ in. in diameter. Prairie regions most of Western U.S. and Canada.

LINUM NARBORENSE. 1 - 2 Ft. Spread clumps of attractive foliage. Flowers azure blue with white eye. Useful in border or rockery. European native.



THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

LABORATORY OF ORGANIC CHEMISTRY

REPORT OF RESEARCH

BY

DR. J. H. HARRIS

AND

DR. R. M. HARRIS

CHICAGO, ILLINOIS

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LOBELIA CARDINALIS - Cardinal Flower or Indian Pink. 3 - 5 Ft. Possibly the most showy of all our native flowers and among the most easy to grow. Flowers bright red, late July to Oct. Grows best in rich garden soil in full sun or light shade. Mulch in summer to keep ground cool and moist and in winter to prevent plants heaving. Very attractive to hummingbirds also. Naturalize by the stream side. N.M. to Sask. So. to Fla. Seed. 40¢ each, 3 - \$1.05, 10 - \$3.00.

LOBELIA KALMII - Kalms or Brook Lobelia. 6 - 12 in. Flowers blue with conspicuous white eye. July-Sept. Damp location or garden conditions in sun. Mulch. Northern states, Ont. and Nova Scotia. Each 40¢, 3 - \$1.05, 10 - \$3.00.

LOBELIA SIPHILITICA - Large Blue Lobelia. 1 - 2 Ft. Blue flowers July-Aug. Culture similar to Cardinalis. Eastern U. S. and Canada. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.

LOBELIA SPICATA - Pale or Spite Lobelia. 1 - 3 Ft. Pale blue flowers June-Aug. Dry location in sun. N.B. to Minn. So. to Ga. and Ark. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.

MERTENSIA VIRGINICA - Virginia Blue Bells. 1 - 2 Ft. Spring flowering, pink buds open into beautiful blue flowers. Ordinary garden soil, light shade to full sun. Also grows in moist locations. Eastern U.S.

MIMULUS LEWISSII - Lewis or Pink Monkey-flower. 12-18 in. Beautiful rose-pink flowers. May-June. Garden location (mulch) or streamside. Full sun. Native to the Rockies and from B.C. to Cal. Each 40¢, 3 - \$1.05, 10 - \$3.00.

MIMULUS RINGENS - Monkey Flower. 1 - 3 Ft. Violet Blue. June-Sept. Garden location (mulch) or streamside. Full sun. Most of eastern N. A. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.

MITELLA DIPHYLLA - Miterwort or Bishops Cap. 8-17 in. White flowers Apr-May. Excellent ground cover for shady moist location. East half U.S. and Canada. Each 40¢, 3 - \$1.05, 10 - \$3.00.

MONARDA DIDYMA - Scarlet Wild Bergamot or Bee Balm. 2 - 3 Ft. Bright red. July-Aug. Rich, moist soil in light shade or sun. Attracts hummingbirds. N.Y. to Mich. So. to Ga. and Tenn. Each 40¢, 3 - \$1.05, 10 - \$3.00.

MONARDA MENTHAEFOLIA - Mintleaf Bergamot. 1½ Ft. Rose or lilac blossoms about inch long. Dry location in full sun. Native to much of western N.A. 40¢ each, 3 - \$1.05, 10 - \$3.00.

OENTHERA MISSOURENSIS - Missouri Primrose or Glade Lily. Prostrate plant, showy yellow flowers to 4 in. across on ascending branches. June-Aug. Full sun. Use in edge of border or rock garden. Mo. and Kan. to Texas. Seed.

OPUNTIA HUMIFUSA (Vulgaris) Prickly Pear or Barberry Fig. A prostrate plant with flat, spiny thickened leaves. Yellow flowers in July. Sun. Rock garden. Dry sands. Mass. to Minn. So. to S.C., Ala., Miss., Mo., and Okla. Each 40¢, 3 - \$1.05, 10 - \$3.00.

PENSTEMON - Beardtongue. Penstemons are among the most showy of North American wild flowers. The flowers are tubular and foxglove-like in shape. Fine in beds or borders. They make fine cut flowers. They will do best in a well drained, rather poor soil in full sun.

PENSTEMON ALPINUS. 12 in. Dark green foliage. Large blue flowers in July. Rocky Mts. and high plains.

PENSTEMON AUGUSTIFOLIUS. 12 in. Blue flowers varying to lilac or white. Dakota to Colo. and N. M.

PENSTEMON BARBATUS - Fire Cracker Penstemon. About 3 Ft. Very showy flame red flowers. Colo.

PENSTEMON COBAEA. 2 Ft. Reddish purple to white. May-June. A very showy penstemon. Mo. and Neb. South.

PENSTEMON CONFERTUS. 1 - 2 Ft. Cream white to sulphur yellow. Rocky Mts. to Ore. and Calif.

PENSTEMON FRUTICOSUS. 1 Ft. Shrubby. Blue-violet. Wyo. to Ore.

PENSTEMON GLABER. 1 - 2 Ft. Large blue flowers in July. Missouri River - west,

PENSTEMON GRANDIFLORUS - Large flowered Beardtongue. 2 - 4 Ft. Stalk and leaves smooth bluish-green. Flowers are large rich lavender, pink or white. June. Prairies of Ill. and Minn. westward.

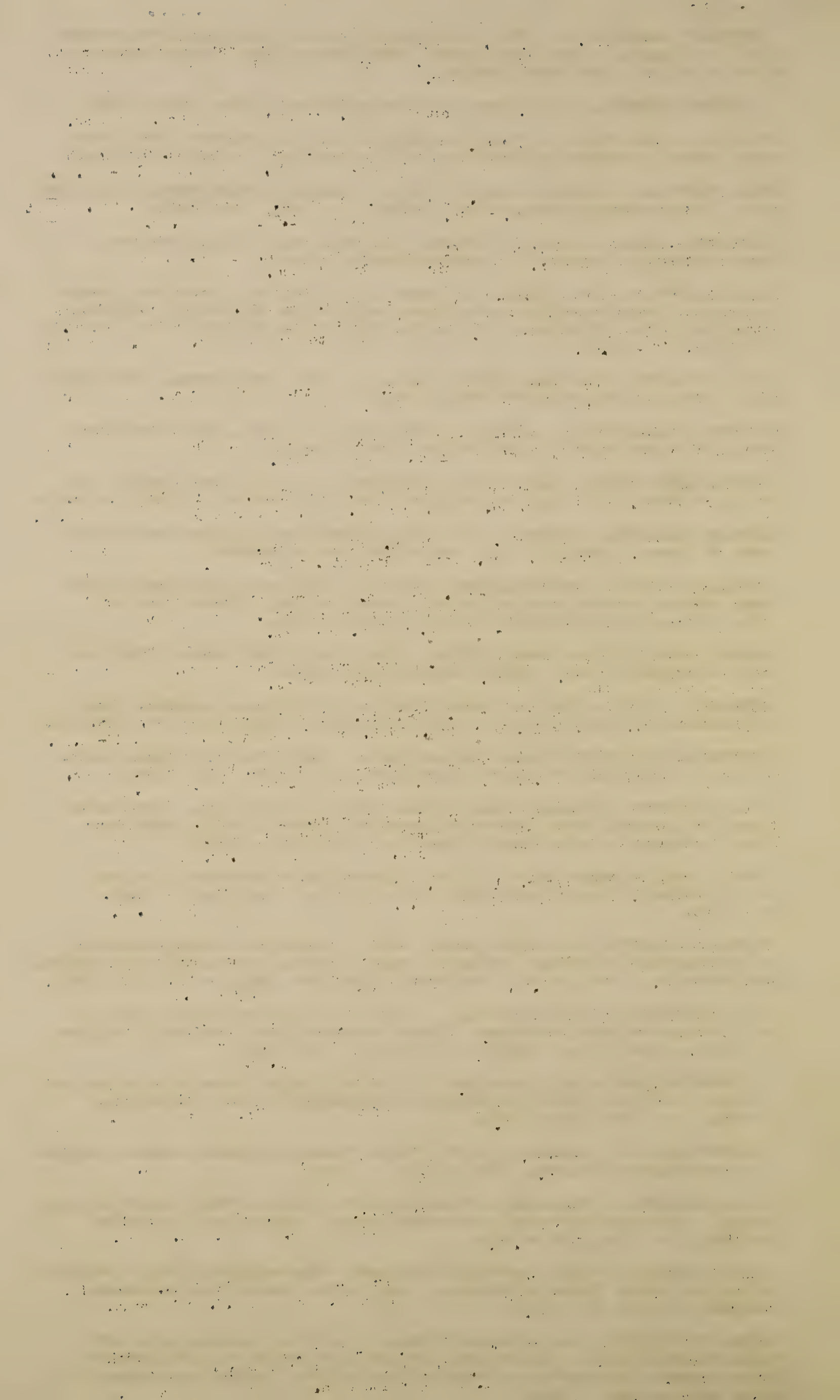






- PENSTEMON ROSE ELF. 2 - 3 Ft. An outstanding new hardy penstemon of the barbatus type. The flower is a lovely coral pink. Blooms June and July. An excellent cut flower as well as a good garden display.
- PENSTEMON VENUSTUS. 2 Ft. Showy blue flowers. Native to Idaho, Ore. and Wash.
- PHLOX OVATA - Pink Phlox. 4 - 7 in. May. Light shade. Semi-evergreen. Good ground cover. Native of mountain regions Penna. to Ala. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- PHLOX STOLONIFERA - Creeping Phlox. 4 - 12 in. Creeping. Reddish-purple. May. Light shade. Higher mountains Penna. to Ga. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- PLATYCODON - Balloon or Chinese Bellflower. New shell pink. 18 in. Pale pink flowers blooming all summer. Well drained location in sun.
- POLEMONIUM REPTANS - Greek Valerian or Jacobs Ladder. 9-12 in. Bright blue flowers in Apr.-May. Grows naturally in moist light shade; we grow it in beds in full sun. Attractive in bloom or foliage. N.Y. to Ala. West to Minn and Kan. Seed. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- PRIMULA POLYANTHA - Polyanthus Primrose mixed. 6 - 9 in. Early spring. Moist light shade. Shades of red, yellow and pastels mixed.
- PYRETHRUM - Painted Daisy - Robinson's Hybrid mixed. 2 - 2½ Ft. One of the finest strains of painted daisies in mixed colors. June and July.
- SANGUINARIA CANADENSIS - Bloodroot or Red Puccoon. 6 - 12 in. White flowers. Apr.-May. Light shade. Que. to Man. So. to Ky. and Kan. Seed. Each 35¢, 3 - 90¢, 10 - \$2.50.
- SAXIFRAGA CRASSIFOLIA - Rockfoil. 6 - 16 in. Flowers rose, in dense panicles held above the leaves. March-May. Sun. Native Altai Mts. to Mongolia.
- SCUTELLARIA RESINOSA - Dwarf Scull-cap. 8-10 in. A very neat little plant for dry sunny location, blooming over long period in summer and fall. Flowers blue and white. Native to the plains Neb. and Kan. to Tex. and Ariz.
- SIEVERSIA TURBINATA (Geum Rossii) 10 in. Large bright yellow flowers. Finely cut green or purplish foliage. Alpine. Colo. and Artic regions.
- SISYRINCHIUM ALBIDUM - Blue Eyed Grass. 10-12 in. Blue flowers in summer. Sun. Dry location. Ga., Ala., to La. No to Ont., Mich. and Wis. Each 35¢, 3 - 90¢, 10 - \$2.50.
- SISYRINCHIUM GRAMINOIDES - Winged Blue-eyed Grass. About 1 Ft. Violet blue. Summer. Full sun. Eastern half of U.S. and Canada. Each 35¢, 3 - 90¢, 10 - \$2.50.
- SMILACINA RACEMOSA - Solomon's Plume or False Spikenard. 1½ to 2 Ft. Fluffy white flowers in May-June. Fruit, cluster of scarlet red berries in fall. Light shade. Almost throughout U. S. and Canada. Each 35¢, 3 - 90¢, 10 - \$2.50.
- STOKESIA LEAVIS - Stokes Aster. 1 - 2 Ft. Flowers blue or blue-white. 3-4 in. across. July-Aug. Sun or light shade. S.C. Ga. to La. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- STREPTOPUS AMPLEXIFOLIUS - Twisted Stalk. 2-3 Ft. Flowers are nodding bell-shaped and greenish-white in spring. Shining red fruit in autumn. Rich moist shady location. Appalachian Mts. Northeast U. S. and Arctic regions. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- THALICTRUM DIOICUM - Early Meadow Rue. About 2 Ft. Beautiful foliage plant for moist location or garden conditions. Flowers greenish-yellow. April-May. Full sun. Lab. to Ala., west to Mo. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- THALICTRUM POLYGAMUM - Tall Meadow Rue. 3 - 10 Ft. Fluffy flowers white to purplish. July-Aug. Moist rich location in full sun. Newfoundland to Fla. west to Ohio. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- THERMOPSIS CAROLINA - Aaronsrod. 3-5 Ft. Yellow flowers in terminal racemes. May-June. Garden conditions in full sun. Mts. of N. C. Seed.
- TIARELLA CORDIFOLIA - Foamflower or False Miterwort. 6-10 In. White flowers in early spring. A good ground cover for moist shady location. N.S. to Ont. So. to Ga. Each 40¢, 3 - \$1.05, 10 - \$3.00.
- TRIVULARIA SESSIFOLIA - Small Merrybells or Bellwort. Also called Wild Oats. 10-15 In. Nodding pale yellow flowers in May-June. Light shade. Eastern U.S. and Canada. Each 35¢, 3 - 90¢, 10 - \$2.50.
- VERBENA BIPINNATIFIDA - Small flowered Verbena. 6 - 12 in. A creeping plant with finely dissected leaves. Flowers pink, pink purple or pinkish violet to lavender, lilac or purple. Late spring to fall. Dry open location. Prairies and meadows. Ga. to Mo. west to Ariz. Seed.







VERBENA CANADENSIS - Large Flowered Verbena. 12-18 in. Similar to above, but larger in every part. Lilac-pink flowers, late spring to Oct. in dense terminal clusters. Fla. to Tex. No to Va., Ill. Pa., Kan., and Colo. Would make a good showing on a dry bank in full sun.

VERONICA VIRGINICA - Culver's Root. 3-5 Ft. White flowers Aug.-Sept. Attractive when left to develop as large clump in rich soil in full sun. Eastern states. Each 40¢, 3 - \$1.05, 10 - \$3.00.

VIOLA CANADENSIS - Canada Violet. Leafy stemmed to about 1 Ft. White flowers with yellow center. Late spring-early summer. Light shade in good soil. N.B. to Ala. West to Rocky Mts. Each 35¢, 3 - 90¢, 10 - \$2.50.

VIOLA PAPILIONACEAE VAR. PRICEMA - Confederate Violet. 6 in. Blue-grey. May. Sun or light shade in rich soil. Carolinas and Ga. to Ky and Ark. Each 35¢, 3 - 90¢, 10 - \$2.50.

VIOLA PEDATA - Birdfoot or Pansy violet. 4-8 in. Very large lilac-purple flowers Apr-June. Grow in well drained location in full sun, never in the drip of trees or crowded by other plants. State flower of Ill. Eastern half of U.S. Each 35¢, 3-90¢, 10 - \$2.50

VIOLA VILLOSA OR VIOLA ADUNCA (Uncertain on identification) 4-8 in. Flower violet. Culture similar to above. Makes neat clump of foliage. Each 35¢, 3-90¢, 10 - \$2.50.

VIOLA (Species or Hybrid) This plant has most unusual blue and white mottled flowers. It has never formed seeds for us and had to be propagated by division. Each 35¢, 3 - 90¢, 10 - \$2.50.

YUCCA FILAMENTOSA - Common Yucca, Adams Needle or Silk Grass. 3-6 Ft. Early summer. Evergreen, full sun. Coastal plain of Ga. to N.J. Seed. Each 75¢, 3 - \$2.00, 10-\$6.00.

YUCCA GLAUCA - Soapweed. 3 - 6 Ft. Greenish-white flowers. May-July. Gray-green leaves, narrower and stiffer than filamentosa. S. Dakota to N.Mex. Each 65¢, 3 - \$1.80, 10 - \$5.00.

All plants are 50¢ each, 3 of one variety for \$1.35, 10 of one variety for \$4.00, except as noted. 5 or more of one variety at the 10 rate. We will quote quantity prices to landscape architects or gardeners interested in buying larger quantities for landscaping or naturalizing.

All of the plants listed are field-grown and have been propagated either by seed or division. If shade loving, they have been grown in beds under lattice. All plants that we have indicated as growing in light shade or full sun, we find grow very well here in Michigan in full sunlight with a heavy mulch. Also, plants ordinarily found only in the marsh, grow very satisfactorily in the garden with a mulch both in summer and winter. For mulch, we use decaying sawdust and straw. Hay, grass clippings, etc., would be satisfactory. Sawdust has the advantage of being free of weed seeds.

All plant order of \$2.00 or over postpaid in the United States. Under \$2.00, add 25¢ to cover postage and packing. This limit does not apply to seed orders as all seed is postpaid.

A certificate of inspection is attached to each plant shipment.

Our seeds are kept in glass containers and will be packaged as orders arrive. All seeds listed are 1951 crop. Seed available only where stated. Gentiana Crinita is 50¢ per packet. All other seeds are 25¢ per packet or five packets for \$1.00 postpaid.

We would be pleased to correspond with persons who collect seed of native American Perennials not on this list. Seed should be properly ripened, true to name, fresh and come from areas where temperature falls below zero. Seed wanted only for our own use.

We wish to thank everyone who suggested a name for our new garden "AMERICAN PERENNIAL GARDENS". It is located on Venoy Road immediately south of Warren Road in Garden City. We cordially invite anyone who is interested, to visit the garden. In order to be sure of being met, please first phone LO 1-0712.

#### INSTRUCTIONS FOR PLANTING SEEDS

Many of our seedlings are grown from seed planted directly in or on the ground. The seed beds are five feet wide and run from east to west. They are covered by narrow lattice running north and south. The lattice is about 1½ feet above the beds. Beds laid out in this way and so covered provide a constantly changing pattern of light and shade. Additional lattice is used around and over the beds of those plants requiring more shade. The lattice not only provides shade for the young plants, but also helps conserve moisture and protects against strong winds. The ground is also much cooler under the lattice.

Germination for most species seems to be better when the ground is kept cool. After planting, seed must not be allowed to become dry.







The following seeds are planted in drills and covered with soil according to the size of the seed: Verbena, Columbines, Prickley Poppy, Butterfly weed, Indigo, Wing Poppy, Wild Senna, Bleeding Heart, Wild Geranium, Golden Seal, Blue Flag, Gayfeather, Lilies, Missouri Primrose, Greek Valarian, Thermopsis, Yucca, and Bloodroot. No shade required for seedlings of Prickley Poppy, Butterfly Weed, Blue Flag, Gayfeather, Missouri Primrose, Thermopsis, Yucca, or Verbena.

Lilies germinate first or second season. All others should germinate the first season, varying from several weeks to several months, unless they are not planted early enough or are allowed to dry out. In that case, expect germination the following year. In natural conditions, seeds are planted shortly after ripening, freezing and thawing are good for them.

The following seeds are broadcast in the beds: Alumroots, Gentians, Lobelias, Monkey Flowers, and the Blue Bells of Scotland. They are not covered unless lightly with sand or fine sphagnum. All these seeds will germinate the first year if planted early. However, many will remain to germinate the second year.

A very light mulch of sawdust, marsh hay, or other suitable material over the beds helps further to conserve moisture and lessen erosion from either wind or rain.

Better success will be had with small quantities of seed by planting in clay pots, tin cans, or flats filled with sphagnum moss. Cover larger seeds, but merely sprinkle fine seeds over the moss. For complete instructions - see Leaflet No. 243, U.S.D.A. (obtained from Supt. of Documents, Washington, D. C. - 5¢).

We have had very good results using vermiculite and a complete fertilizer instead of the moss. All our seeds except those planted in the ground are being planted in vermiculite this year. Both the fertilizer and vermiculite may be obtained from Gro-Quick Sales, 1141-7 Morang Road, Detroit 24, Michigan.

Fringed Gentain is best broadcast in a suitable habitat where it will not require transplanting. Another alternative is planting in plant bands. They germinate easily, but are difficult to transplant successfully.

Growing our native plants from seed is a gratifying experience. Certainly is good conservation. It allows many of us to own plants in quantities we couldn't afford to buy, and definitely shouldn't collect.

Good reference books on growing wildflowers are:

Standard Cyclopedia of Horticulture  
Pioneering with Wildflowers  
Wild Flower Guide  
Growing Woodland Plants

- L. H. Bailey  
- George D. Aiken  
- Edgar T. Wherry  
- Clarence and Eleanor Birdseye.



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